1186082 - R8 SDMS

Ful Heimen

ANACONDA Minerals Company 555 Seventeenth Street Denver, Colorado 80202 Telephone 303 293 4000

November 1, 1983



Michael Barden, Intern Planning and Standards Section Water Quality Control Division 4210 East 11th Avenue Denver, Colorado 80220

> Anaconda Minerals - Rico Project CDPS Permit No. CO-0029793 Industrial Discharge Questionnaire

Dear Mr. Barden:

As I discussed on the phone, the Rico property was acquired by Anaconda for exploration purposes and has never been put into operation since acquisition. I have completed the questionnaire where applicable.

The costs shown are principally for stabilization of tailings and settling pond dikes, for water quality surveys, and associated engineering and minewater treatability studies. Very little capital equipment is included.

The 1983 estimated costs are for installation of the treatment facility and continuation of our Dolores River monitoring program.

The SIC No. for Lead and Zinc Mining is 1031 but I do not think it is applicable to non-operating properties.

If any further information is needed, please advise.

Very truly yours,

John R. Whyte

Environmental Services Manager

JRW:nc

xc: Sandy Squire, WQCD

NOV. 9 RECD

ECONOMIC IMPACTS OF WATER QUALITY CONTROL

INDUSTRIAL DISCHARGE QUESTIONNAIRE

1.	What are th this site?	e total number of employees engaged in the operation at	
	1 (one)	Anaconda acquired the Rico property in 1980 as an exploration project. No operations have taken place since its acquisition.	
2.	(indicating appropriate	the costs which were incurred at this operation the year). Include all pollution-related costs as Total costs should represent the fully allocated costs on before federal income tax. Definitions are provided	
	Labor:	Payroll for all labor directly connected with production, including skilled, unskilled, supervisory, executive, etc.	
	Materials:	Include all raw materials, maintenance and operating supplies used in production and any other materials used in direct connection with production.	
Energy:		Include purchased fuels used for heat, power, and generating electricity. If you include fuels produced and consumed in the establishment, please so identify. Cost is delivered cost (i.e., paid or payable after discounts and including freight or other direct charges).	
	Fixed Costs	General production related fixed charges, including: installed capital, insurance, local property taxes, building and machinery rent.	
		If possible, separate out depreciation charges for all installed capital at this site.	
	A. Di	rect production costs (non-capitalized):	
	La	abor N/A	
		ost of materials	
	Co	ost of energy	
	B. Fi	ixed charges:	
	Pı	roperty tax, insurance, etc.	
	De	epreciation	

		\$/Unit	Quantities Per Year	Annual Costs
Elec	ric (kwh)	N/A	·	
Gas ((ft. ³)	N/A		
Coal	(tons)	N/A		
Liqui	ld fuel (gal)	N/A		
allo	cate 0 & M cost ned in question	is to labor, a 3.)		costs. If possible, nergy consumed (as
	Total capi water poll	tal expendi ution abate	ture and O & M cos	sts should include made to comply with
	O & M cost please incopollution	is. If thes licate. <u>DO</u> abatement r	e costs are imposs NOT include expend	gment in allocating sible to estimate, itures for other, air, solid wastes,
	Labor		- 	All activities and
	Materials			<pre>studies are managed by Denver staff. Pro-</pre>
	Energy	·		ject is not back charged and costs are not isolat
•				
regui pleas	lations for war se briefly desc openditure. Ca lations refer o	ter quality cribe type o apital expen only to regun proposed f	control within the f control and esta ditures for currentlations that are cornally by federal	either currently in lor state
regul effec gover	rnments. It do lopment or cons		ude regulations th	nat are under

^{*}See outline attached.

	N/A
	·
works,	discharge process wastewater to a publicly-owned treatme are your sewer charges based upon: Water userage?N/A
В.	Wastewater concentration?
	BOD COD TSS
C.	Wastewater volume?
D.	Other basin (please specify):
	·
	discharge process wastewater to a publicy-owned treatmen
	please provide the following cost information:
	please provide the following cost information:

COLORADO DEPARTMENT OF HEALTH QUESTIONNAIRE October 1983

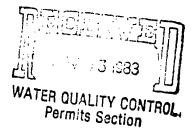
Rico Capital Costs to Date

	\$1,606,000
Water Quality Studies and Monitoring (1983)	\$100,000
Water Treatment Plant Construction (1983)	\$100,000
Water Quality Studies	\$240,000
Treatability and Water Treatment Plant Design	\$638,000
Dolores River and Silver Creek Stabilization	\$328,000
Tailings Ponds Stabilization	\$200,000

		Cost by Year
	1980	\$ 25,000
	1981	\$ 836,000
	1982	\$ 544,000
	1983	\$ 200,000
TOTAL		\$1,606,000

ANACONDA Minerals Company
555 Seventeenth Street
Denver, Colorado 80202
Telephone 303 293 4000

November 2, 1983



Engineering Technician
Permits and Enforcement Section
Water Quality Control Division
Colorado Department of Health
4210 East 11th Avenue
Denver, Colorado 80220

Subject: CDPS - CO-0029793 Dolores County NOV's dated

August 17, 1983 and October 6, 1983

Dear Ms. Squire:

We have reviewed the subject Notices of Violation (NOV's), and current monitoring data. Attached are summary sheets which list the analytical results used for the DMR's. Other labs were used to analyze splits of the samples; these analyses are also shown. This was done after the June analyses indicated that the permit limits had been exceeded. All DMR data has been generated by the same lab we have been using essentially since acquisition of the property. Although there are interesting comparisons in some cases, no consistent analytical differences are indicated.

As you know, the existing treatment system at Rico consists only of settling ponds and thus can control only suspended material. No violations of the Total Suspended Solids (TSS) limitations occurred. Zinc in the discharge is almost totally in dissolved form and therefore cannot be controlled by our present facilities. As to the other parameters, i.e. Copper and Lead, these characteristically vary with the TSS. The original NOV issued by the Department in 1980, was amended to increase the zinc limitation to its present limits i.e. 30 day average 2.5 mg/l and 5.0 mg/l maximum. No interim adjustment was made in the Lead and Copper limitation. If the lead and copper were increased by the same factor as the zinc, the only permit exceedence, other than zinc, during June, July and August would be the 0.55 mg/l copper analysis which was reported in July.

The September and October monitoring data show permit limitation exceedences only for Lead. We have not generally had a problem meeting the lead limitation and as you can see, the September check samples indicate a lead value of 0.01 mg/l of lead in both cases. The 0.065 lead in the October 3, 1983 sample was, however, confirmed by the check sample. The October 18, 1983 sample

S. Squire CDPS - CO-0029793 Dolores County NOV's dated 8/17/83 and 10/6/83 November 2, 1983 Page two

returned to a level which meets the permit limitations for lead. If the lead limitation was increased as previously described, there would be no permit exceedences in September or October.

We are continuing to take splits of our water quality samples in the interest of assuring accurate monitoring data and for developing a baseline for proper evaluation of the treatment plant.

Very truly yours,

John R. Whyte

Environmental Services Manager

JRW:nc

RICO DMR SUMMARY July thru October 1983

Comparison with split samples run by other laboratories.

Sampling Date	July 18, 1983 ⁽¹⁾	Check Analysis (2)
Total Suspended Solids (mg/l) Total Dissolved Solids (mg/l) Total Cadmium (mg/l) Total Copper (mg/l) Total Zinc (mg/l) Total Lead (mg/l) Total Mercury (mg/l) Total Silver (mg/l)	3.25 1,020 0.023 0.033 5.90 0.010 0.00008 <0.0004	2.8 1,014 0.031 0.034 5.09 < 0.01 < 0.0002 0.0001
Sampling Date	August 1, 1983 (1)	Check Analysis (2)
Total Suspended Solids (mg/l) Total Dissolved Solids (mg/l) Total Cadmium (mg/l) Total Copper (mg/l) Total Zinc (mg/l) Total Lead (mg/l) Total Mercury (mg/l) Total Silver (mg/l)	5.25 984 0.018 0.11 3.38 0.008 0.0003 0.0003	4 1016 0.03 0.15 4.3 0.01 <0.0003 <0.01
Sampling Date	August 15, 1983 (1)	Check Analysis (2)
Total Suspended Solids (mg/l) Total Dissolved Solids (mg/l) Total Cadmium (mg/l) Total Copper (mg/l) Total Zinc (mg/l) Total Lead (mg/l) Total Mercury (mg/l) Total Silver (mg/l)	0.5 916 0.016 0.021 4.78 0.007 0.0004 0.003	1.4 976 0.019 0.015 3.47 0.01 <0.0002 0.001
Sampling Date	September 7, 1983 (1)	Check Analysis (2)
Total Suspended Solids (mg/1) Total Dissolved Solids (mg/1) Total Cadmium (mg/1) Total Copper (mg/1) Total Zinc (mg/1) Total Lead (mg/1) Total Mercury (mg/1) Total Silver (mg/1)	0.25 994 0.012 0.026 2.7 0.016 0.00004 <0.0004	4 1020 0.01 0.24 2.8 <0.01 <0.0003 <0.01

RICO DMR SUMMARY (Continued)

Sampling Date	<u>September 19, 1983</u> (1)	Check Analysis (2)
Total Suspended Solids (mg/l) Total Dissolved Solids (mg/l) Total Cadmium (mg/l) Total Copper (mg/l) Total Zinc (mg/l) Total Lead (mg/l) Total Mercury (mg/l) Total Silver (mg/l)	1.75 970 0.0093 0.014 1.86 0.025 <0.00004 0.0021	1.8 990 0.012 0.015 2.36 < 0.01 0.0025 0.001
Sampling Date	October 3, 1983 (1)	Check Analysis (2)
Total Suspended Solids (mg/l) Total Dissolved Solids (mg/l) Total Cadmium (mg/l) Total Copper (mg/l) Total Zinc (mg/l) Total Lead (mg/l) Total Mercury (mg/l) Total Silver (mg/l)	2.5 928 0.0082 0.015 1.95 0.065 <0.00002 0.0014	0.018 0.015 2.01 0.054 <0.0005 0.008
Sampling Date	October 18, 1983 (1)	Check Analysis (2)
Total Suspended Solids (mg/l) Total Dissolved Solids (mg/l) Total Cadmium (mg/l) Total Copper (mg/l) Total Zinc (mg/l) Total Lead (mg/l) Total Mercury (mg/l) Total Silver (mg/l)	0.75 1006 0.002 0.021 1.56 0.007 0.0002 0.008	2.4 1024 0.009 0.009 1.66 <0.01 <0.0002 0.001

⁽¹⁾ Used for DMR

⁽²⁾ Split sample - different lab